VZCZCXYZ0005
OO RUEHWEB

DE RUEHC #6010 2582304
ZNY SSSSS ZZH
O 152243Z SEP 09
FM SECSTATE WASHDC
TO RUEHMO/AMEMBASSY MOSCOW IMMEDIATE 0000
RUEHGV/USMISSION GENEVA IMMEDIATE 0000
INFO RUEAIIA/CIA WASHINGTON DC IMMEDIATE
RHMFISS/JOINT STAFF WASHINGTON DC IMMEDIATE
RHEHAAA/NATIONAL SECURITY COUNCIL WASHINGTON DC IMMEDIATE
RHMFISS/DTRA ALEX WASHINGTON DC IMMEDIATE
RHMFISS/DTRA DULLES WASHINGTON DC IMMEDIATE
RUEKJCS/SECDEF WASHINGTON DC IMMEDIATE
RHMCSUU/DEPT OF ENERGY WASHINGTON DC IMMEDIATE

S E C R E T STATE 096010

SIPDIS
GENEVA FOR JCIC

E.O. 12958: DECL: 09/14/2029
TAGS: KACT PARM START US RS
SUBJECT: SFO-DIP-09-005H: U.S. DRAFT NEW START TREATY INSPECTION PROTOCOL ANNEXES, CABLE 8 OF 8

REF: A. STATE 088262 (U.S.-PROPOSED TREATY TEXT PART 1)
¶B. STATE 088263 (U.S.-PROPOSED TREATY TEXT PART 2)
¶C. STATE 091093 (DRAFT NEW START TREATY IP CABLE 1 OF 7)
¶D. STATE 091284 (DRAFT NEW START TREATY IP CABLE 2 OF 7)
¶E. STATE 091291 (DRAFT NEW START TREATY IP CABLE 3 OF 7)
¶F. STATE 091106 (DRAFT NEW START TREATY IP CABLE 4 OF 7)
¶G. STATE 091134 (DRAFT NEW START TREATY IP CABLE 5 OF 7)
¶H. STATE 091143 (DRAFT NEW START TREATY IP CABLE 6 OF 7)
¶I. STATE 091151 (DRAFT NEW START TREATY IP CABLE 7 OF 7)

Classified By: Jerry A. Taylor, Director, VCI/SI.
Reason: 1.4(b) and (d)

¶1. (U) This is an action request. See paragraph 4 below.

¶2. (S) BACKGROUND: On August 25, 2009, U.S. Embassy Moscow provided to the Russian Federation the texts of the U.S.-proposed Draft New START Treaty Articles (Refs A and B). On September 2, 2009, the U.S. Delegation to the New START Treaty negotiations provided the texts of the U.S.-proposed Draft New START Treaty Inspection Protocol to the Russian Delegation in Geneva (Refs C-I). This cable contains the U.S.-proposed draft of the New START Treaty Inspection Protocol Annexes.

¶3. (S) This is cable 8 of 8 cables. This cable contains paragraph 1(h) of Section II of Annex 14 through paragraph 1(i) of Section IV of Annex 14 of the U.S.-proposed Draft Inspection Protocol Annexes. Embassy should note that, due to the length of the draft, the text was sent using multiple cables.

¶4. (U) ACTION REQUEST: Embassy Moscow is requested to combine the texts of the U.S. draft New START Treaty Inspection Protocol Annexes contained in the associated cables into one document and provide that text to appropriate host government officials. Washington will provide a courtesy Russian-language translation of the U.S. draft New START Treaty Telemetry Protocol when available; however, delivery of the English language text should not be delayed. Embassy is requested to confirm delivery of the text, the name and office of the official to whom it was delivered, the date of delivery, and any comment or reaction provided at that time.

¶5. (S/Releasable to the Russian Federation) Begin text:

(h) The radiation detection equipment shall be accepted as operable, provided:

(i) the difference between the two calibration measurements taken in accordance with subparagraph (f) of this paragraph is less than or equal to 30 percent of the average value of the calibration measurement; and

(ii) the difference between the value of the sensitivity of the neutron detector, determined in accordance with subparagraph (g)(iii) of this paragraph, and the laboratory value of the sensitivity of the neutron detector, as recorded on the neutron detector, is less than or equal to 15 percent of the average of these two sensitivity values.

(i) The results of the measurements obtained in accordance with subparagraphs (d) and (f) of this paragraph shall be recorded either in the inspection report or in a form, agreed upon by the Parties, used to record the confirmation of the operability of the radiation detection equipment at the point of entry.

¶2. At the inspection site, radiation detection equipment shall be used in accordance with the following procedures:

(a) The counting time of each individual measurement shall be the counting time specified in Sections I, II, and IV of Annex 8 to this Protocol for the neutron detectors in the sets of radiation detection equipment of the United States of America or the Russian Federation, respectively.

(b) The inspection team shall have the right to observe the use of the radiation detection equipment to confirm that the procedures provided for in this paragraph are followed.

(c) After arrival at the inspection site, prior to conducting radiation measurements the inspection team shall confirm, in accordance with the procedures provided for in paragraph 1 of this Section, that at least one neutron detector in the set of radiation detection equipment is operable. If the inspection team is unable to confirm the operability of at least one neutron detector, this fact shall be recorded in the inspection report and the inspection shall proceed without the use of radiation detection equipment.

(d) Measurements of radiation levels, in accordance with paragraphs 1 and 2 of Section III of this Annex, of the object designated by the inspection team for radiation measurements shall be taken at the location selected for that purpose by the in-country escort, using a neutron detector whose operability has been confirmed pursuant to subparagraph (c) of this paragraph.

(e) Background radiation measurements shall be taken by the in-country escort no less than ten meters from the object designated by the inspection team for radiation measurements. Such background radiation measurements shall be taken in accordance with the following procedures:

(i) The inspection team shall identify to the in-country escort the front surface of the neutron detector that will be directed toward the object designated for measurement of the radiation level. The front surface of the neutron detector shall be positioned vertically, at approximately the same height at which measurements on the designated object will be taken.

(ii) Two background radiation measurements shall be taken. The average of these two measurements shall be calculated and recorded in the inspection report as the

average background radiation value.

(iii) If the average background radiation value is greater than 450 counts, another location for taking the background radiation measurements shall be selected by the in-country escort. Background radiation measurements shall be taken until an average background radiation value is obtained that is less than 450 counts at a selected location.

(iv) The square root of the average background radiation value shall be calculated to two decimal places and the result multiplied by four. This number shall be added to the average background radiation value and the result shall be rounded up to the higher whole number. This number shall be recorded in the inspection report as the comparison number to be used in paragraph 1 of Section III of this Annex.

III. For Inspections Conducted Pursuant to Paragraph 3a of Article XI of the Treaty

¶1. For an inspection conducted pursuant to paragraph 3a of Article XI of the Treaty, radiation detection equipment shall be used in accordance with the procedures contained in this Section.

¶2. The in-country escort shall position, for radiation measurements, an object contained in the front section and declared by the in-country escort to be a non-nuclear object, hereinafter referred to as the inspected object, at a location specified by the in-country escort, at a distance of no less than ten meters from the front section, or shall provide for radiation measurements of the inspected object while it is in the front section. If radiation measurements of the inspected object are taken while it is in the front section, the in-country escort shall have the right to use special shields to prevent neutrons from a reentry vehicle or reentry vehicles remaining on the front section from striking the neutron detector, but which do not interfere with the flow of neutrons from the inspected object to the neutron detector, or to remove the reentry vehicle or reentry vehicles from the front section to a distance of no less than ten meters from the front section. Whichever method is used for the placement of the inspected object for radiation measurements, the in-country escort shall ensure that the procedures for the use of radiation detection equipment, as set forth below, are carried out.

¶3. The process of removing the inspected object from the front section and moving it to a location where radiation measurements will be taken and the process of removing a reentry vehicle or reentry vehicles from the front section, shall be carried out outside the field of view of inspectors in such a manner as to permit inspectors to ascertain that the inspected object is that same inspected object. Before the inspected object or the reentry vehicle or reentry vehicles are removed from the front section, inspectors shall have the right to view the specially allocated site inside a room or within a portion of the site for viewing the front section, to ascertain that the site does not contain other objects similar to the inspected object. During the entire process of removing the inspected object or the reentry vehicle or reentry vehicles from the front section, the inspectors shall have the right, at their own choice, either to observe all exits of the site to ascertain that no objects that are similar to the inspected object are delivered to that site, or to seal all the exits with seals.

¶4. The inspection team shall select the point on the inspected object where radiation measurements will be taken. A description of the inspected object shall be recorded as a diagram in the inspection report. The approximate dimensions of the inspected object, determined visually without taking linear measurements, and the approximate location of the measurement point, shall be

indicated on this diagram.

¶5. The in-country escort shall position the neutron detector in a location specified by the inspection team, no less than seven centimeters and no more than two meters from the surface of the inspected object, with a maximum permissible deviation from these established distances not to exceed 20 percent, so that the neutron detector is at the same level as the point where the measurement will be taken, with the front surface of the neutron detector facing the point on the inspected object where the measurement will be taken.

¶6. The in-country escort shall take two measurements of the radiation level at the selected point. The average of the two measurements shall be calculated, and if not a whole number, shall be rounded up to the higher whole number. This average shall be recorded in the inspection report as the average measurement at that point.

¶7. If the average measurement of the radiation level at the selected point is less than or equal to the comparison number calculated in accordance with subparagraph 2(e)(iv) of Section II of this Annex, the inspected object is, in fact, a non-nuclear object.

¶8. If the average measurement of the radiation level at the selected point is greater than the comparison number calculated in accordance with subparagraph 2(e)(iv) of Section II of this Annex, this fact shall be recorded in the inspection report.

IV. For Inspections Conducted Pursuant to Subparagraph 3(b) of Article XI of the Treaty with Respect to Nuclear Armaments for Heavy Bombers with regard to objects not declared to be nuclear weapons.

¶1. For inspecting covered or environmentally protected objects which are not declared by the inspected Party to be nuclear armaments for heavy bombers; containers which are not declared by the inspected Party to contain nuclear armaments and not opened for inspection; and non-nuclear ALCMs stored outside containers in accordance with paragraph 3 of Section I, subparagraph 4 of Section II, or paragraph 6 or 7 of Section IV of Annex 4 to this Protocol, the following procedures shall be used:

(a) The inspection team shall select no more than four points along the object, container or ALCM) at which measurements of radiation levels will be taken. A description of the object, container or ALCM shall be recorded as a diagram in the inspection report. The approximate dimensions of the object, container or ALCM, and the approximate location of each measurement point, shall be indicated on this diagram.

(b) The in-country escort shall position the neutron detector in a location specified by the inspection team, no less than seven centimeters and no more than two meters from the surface of the object, container or ALCM , with a maximum permissible deviation from these established distances not to exceed 20 percent, so that the neutron detector is at the same level as the point where the measurement will be taken, with the front surface of the neutron detector facing the point on the object, container or ALCM where the measurement will be taken.

(c) The in-country escort shall take two measurements of the radiation level at each selected point. The average of the two measurements shall be calculated, and if not a whole number, shall be rounded up to the higher whole number. This average shall be recorded in the inspection report as the average measurement at that point.

(d) If the average measurement of the radiation level at each selected point is less than or equal to the comparison number calculated in accordance with subparagraph 2(e)(iv) of Section II of this Annex, the

object, container or ALCM shall not be subject to further inspection.

(e) If the average measurement of the radiation level at any of the four selected points is greater than the comparison number calculated in accordance with subparagraph 2(e)(iv) of Section II of this Annex, this fact shall be recorded in the inspection report and the container shall be subject to further inspection in accordance with subparagraph 6(a)(ii) of Section IV of Annex 4 to this Protocol, as applicable.

¶2. To confirm, pursuant to paragraph 3 of Section I or subparagraph 7(c) of Section IV of Annex 4 to this Protocol, that a container does not conceal the presence of radiation, the following procedures shall be used:

(a) The inspection team shall select no more than four points on the container wall at which measurements of radiation levels will be taken for the purpose of measuring the radiation shielding effect. A description of the container shall be recorded as a diagram in the inspection report. The approximate dimensions of the container and the approximate location of each measurement point shall be indicated on this diagram.

(b) The in-country escort shall open the container and place the calibration source on its stand inside the container on the longitudinal axis of the container. The in-country escort shall position the neutron detector outside the container in a location specified by the inspection team, no less than seven centimeters and no more than two meters from the surface of the container, with a maximum permissible deviation from established distances not to exceed 20 percent. The calibration source and neutron detector shall be placed on a horizontal straight line that passes through the center of the calibration source and the center of the neutron detector, that lies on a plane perpendicular to the longitudinal axis of the container, and that intersects the wall of the container at the selected point on the container. The distance between the center of the calibration source and the center of the neutron detector shall be recorded in the inspection report. The front surface of the neutron detector shall face the selected point.

(c) The in-country escort shall take two measurements of the radiation level at each selected point on the container. The container shall remain closed during measurements of the radiation level. The average of the two measurements shall be calculated. The average background radiation value, calculated in accordance with subparagraph 2(e)(ii) of Section II of this Annex, shall be subtracted from this average. The result shall be recorded in the inspection report as the net average value of radiation obtained when the calibration source is placed inside the container at that point.

(d) The procedures provided for in subparagraphs (b) and (c) of this paragraph shall be repeated until measurements have been taken at all the points on the container selected by the inspection team, and the results have been recorded in the inspection report.

(e) The calibration source shall be removed from the container and the neutron detector repositioned no less than two meters from the container with its front surface no longer facing the container.

(f) The in-country escort shall position the calibration source in front of the front surface of the neutron detector so that the distance between the front surface of the neutron detector and the calibration source is the same distance, within three percent, as that used for one of the measurements taken pursuant to subparagraph (c) of this paragraph. No objects that could interfere with the flow of neutrons to the neutron detector shall be located

near the calibration source or the neutron detector.

(g) The in-country escort shall take two measurements of the radiation level with the calibration source and the neutron detector positioned in accordance with subparagraphs (e) and (f) of this paragraph. The average of the two measurements shall be calculated. The average background radiation value calculated in accordance with subparagraph 2(e)(ii) of Section II of this Annex shall be subtracted from this average. The result shall be recorded in the inspection report as the net average value of radiation obtained when the calibration source is placed outside the container at the distance used pursuant to subparagraph (f) of this paragraph.

(h) The procedures provided for in subparagraphs (f) and (g) of this paragraph shall be repeated for each distance between the calibration source and the neutron detector used for the measurements of the radiation level taken pursuant to subparagraph (c) of this paragraph.

(i) For each point on the container, calculations shall be carried out, in which the net average value of the radiation level obtained pursuant to subparagraph (c) of this paragraph when the calibration source is placed inside the container is divided by the corresponding net average value of the radiation level obtained pursuant to subparagraph (g) of this paragraph when the calibration source is placed outside the container. The division shall be carried out to two decimal places. If the result of the division with respect to any point is less than 0.5, this fact shall be recorded in the inspection report.

End text.
CLINTON